

RAW SEQUENCE LISTING

DATE: 08/06/2001

PATENT APPLICATION: US/09/766,889A

TIME: 11:21:03

Input Set : A:\L0461-7104 revised sequence listing.txt

Output Set: N:\CRF3\08062001\I766889A.raw

3 <110> APPLICANT: Luiten, Rosalie
4 Boon-Falleur, Thierry
5 van der Bruggen, Pierre
6 Stroobant, Vincent
7 Demotte, Nathalie
8 Schultz, Erwin

10 <120> TITLE OF INVENTION: MAGE ANTIGENIC PEPTIDES WHICH BIND HLA-B35 AND HLA-B44
12 <130> FILE REFERENCE: L0461/7104
14 <140> CURRENT APPLICATION NUMBER: US 09/766,889A
16 <141> CURRENT FILING DATE: 2001-01-19
18 <150> PRIOR APPLICATION NUMBER: US 60/177,242
20 <151> PRIOR FILING DATE: 2000-01-20
22 <150> PRIOR APPLICATION NUMBER: US 60/243,212
24 <151> PRIOR FILING DATE: 2000-10-25
26 <160> NUMBER OF SEQ ID NOS: 59
29 <170> SOFTWARE: FastSEQ for Windows Version 3.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 930
33 <212> TYPE: DNA
34 <213> ORGANISM: Homo sapiens
36 <400> SEQUENCE: 1

37	atgtctcttg	agcagaggag	tctgcactgc	aagcctgagg	aagcccttga	ggcccaacaa	60
38	gaggccctgg	gcctggtgtg	tgtgcaggct	gccacctcct	cctcctctcc	tctggtcctg	120
39	ggcaccctgg	aggaggtgcc	cactgctggg	tcaacagatc	ctccccagag	tcctcagggg	180
40	gcctccgcct	ttcccaactac	catcaacttc	actcgacaga	ggcaaccacg	tgagggttcc	240
41	agcagccgtg	aagaggaggg	gccaagcacc	tcttgtatcc	tggagtcctt	gttccgagca	300
42	gtaatcacta	agaaggtggc	tgatttggtt	ggttttctgc	tcctcaaata	tcgagccagg	360
43	gagccagtca	caaaggcaga	aatgctggag	agtgtcatca	aaaattacaa	gcactgtttt	420
44	cctgagatct	tcggcaaaagc	ctctgagtc	ttgcagctgg	tctttggcat	tgacgtgaag	480
45	gaagcagacc	ccaccggcca	ctcctatgtc	cttgctacct	gcctaggtct	ctcctatgat	540
46	ggcctgctgg	gtgataatca	gatcatgccc	aagacaggct	tcctgataat	tgtcctggtc	600
47	atgattgcaa	tggaggggcg	ccatgctcct	gaggaggaaa	tctggggagg	gctgagtgtg	660
48	atggaggtgt	atgatgggag	ggagcacagt	gcctatgggg	agcccaggaa	gctgctcacc	720
49	caagatttgg	tgaggaaaaa	gtacctggag	taccggcagg	tgccggacag	tgatcccgcg	780
50	cgctatgagt	tctgtggggg	tccaagggcc	ctcgctgaaa	ccagctatgt	gaaagtcctt	840
51	gagtatgtga	tcaaggctcag	tgcaagagtt	cgctttttct	tcccatccct	gcgtgaagca	900
52	gctttgagag	aggaggaaga	gggagtctga				930

54 <210> SEQ ID NO: 2
55 <211> LENGTH: 309
56 <212> TYPE: PRT
57 <213> ORGANISM: Homo sapiens
59 <400> SEQUENCE: 2

60	Met	Ser	Leu	Glu	Gln	Arg	Ser	Leu	His	Cys	Lys	Pro	Glu	Glu	Ala	Leu
61	1				5					10					15	
62	Glu	Ala	Gln	Gln	Glu	Ala	Leu	Gly	Leu	Val	Cys	Val	Gln	Ala	Ala	Thr
63				20					25					30		
64	Ser	Ser	Ser	Ser	Pro	Leu	Val	Leu	Gly	Thr	Leu	Glu	Glu	Val	Pro	Thr

ENTERED
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65		35		40		45	
66	Ala	Gly	Ser	Thr	Asp	Pro	Pro
67		50				55	
68	Pro	Thr	Thr	Ile	Asn	Phe	Thr
69	65				70		
70	Ser	Ser	Arg	Glu	Glu	Gly	Pro
71				85			90
72	Leu	Phe	Arg	Ala	Val	Ile	Thr
73				100			105
74	Leu	Leu	Leu	Lys	Tyr	Arg	Ala
75				115			120
76	Leu	Glu	Ser	Val	Ile	Lys	Asn
77		130				135	
78	Gly	Lys	Ala	Ser	Glu	Ser	Leu
79	145					150	
80	Glu	Ala	Asp	Pro	Thr	Gly	His
81						165	
82	Leu	Ser	Tyr	Asp	Gly	Leu	Leu
83				180			185
84	Gly	Phe	Leu	Ile	Ile	Val	Leu
85				195			200
86	Ala	Pro	Glu	Glu	Glu	Ile	Trp
87		210				215	
88	Asp	Gly	Arg	Glu	His	Ser	Ala
89	225					230	
90	Gln	Asp	Leu	Val	Gln	Glu	Lys
91						245	
92	Ser	Asp	Pro	Ala	Arg	Tyr	Glu
93				260			265
94	Glu	Thr	Ser	Tyr	Val	Lys	Val
95				275			280
96	Arg	Val	Arg	Phe	Phe	Phe	Pro
97		290				295	
98	Glu	Glu	Glu	Gly	Val		
99		305					

101 <210> SEQ ID NO: 3

102 <211> LENGTH: 31

103 <212> TYPE: DNA

104 <213> ORGANISM: Homo sapiens

106 <400> SEQUENCE: 3

107 aaactgcaga tgtctcttga gcagaggagt c

31

109 <210> SEQ ID NO: 4

110 <211> LENGTH: 30

111 <212> TYPE: DNA

112 <213> ORGANISM: Homo sapiens

114 <400> SEQUENCE: 4

115 aaactgcagt cagactccct cttcctcctc

30

117 <210> SEQ ID NO: 5

118 <211> LENGTH: 12

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```

119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 5
123   Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu Val
124     1           5           10
126 <210> SEQ ID NO: 5
127 <211> LENGTH: 10
128 <212> TYPE: PRT
129 <213> ORGANISM: Homo sapiens
131 <400> SEQUENCE: 6
132   Asp Pro Thr Gly His Ser Tyr Val Leu Val
133     1           5           10
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 9
137 <212> TYPE: PRT
138 <213> ORGANISM: Homo sapiens
140 <400> SEQUENCE: 7
141   Asp Pro Thr Gly His Ser Tyr Val Leu
142     1           5
144 <210> SEQ ID NO: 8
145 <211> LENGTH: 9
146 <212> TYPE: PRT
147 <213> ORGANISM: Homo sapiens
149 <400> SEQUENCE: 8
150   Glu Ala Asp Pro Thr Gly His Ser Tyr
151     1           5
153 <210> SEQ ID NO: 9
154 <211> LENGTH: 10
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo sapiens
158 <400> SEQUENCE: 9
159   Lys Glu Ala Asp Pro Thr Gly His Ser Tyr
160     1           5           10
162 <210> SEQ ID NO: 10
163 <211> LENGTH: 8
164 <212> TYPE: PRT
165 <213> ORGANISM: Homo sapiens
167 <400> SEQUENCE: 10
168   Ala Asp Pro Thr Gly His Ser Tyr
169     1           5
171 <210> SEQ ID NO: 11
172 <211> LENGTH: 72
173 <212> TYPE: DNA
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 11
177   atgtctgagt ccttcagct ggtctttggc attgacgtga aggaagcaga ccccaccggc      60
178   cactcctatt ga                                           72
180 <210> SEQ ID NO: 12
181 <211> LENGTH: 23

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```

182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 12
186 Met Ser Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val Lys Glu Ala
187   1             5             10             15
188 Asp Pro Thr Gly His Ser Tyr
189           20
191 <210> SEQ ID NO: 13
192 <211> LENGTH: 33
193 <212> TYPE: DNA
194 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 13
197 atggaagcag accccaccgg ccactcctat tga
199 <210> SEQ ID NO: 14
200 <211> LENGTH: 10
201 <212> TYPE: PRT
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 14
205 Met Glu Ala Asp Pro Thr Gly His Ser Tyr
206   1             5             10
208 <210> SEQ ID NO: 15
209 <211> LENGTH: 30
210 <212> TYPE: DNA
211 <213> ORGANISM: Homo sapiens
213 <400> SEQUENCE: 15
214 atggcagacc ccaccggcca ctctattga
216 <210> SEQ ID NO: 16
217 <211> LENGTH: 9
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 16
222 Met Ala Asp Pro Thr Gly His Ser Tyr
223   1             5
225 <210> SEQ ID NO: 17
226 <211> LENGTH: 9
227 <212> TYPE: PRT
228 <213> ORGANISM: Homo sapiens
230 <400> SEQUENCE: 17
231 Ser Ala Tyr Gly Glu Pro Arg Lys Leu
232   1             5
234 <210> SEQ ID NO: 18
235 <211> LENGTH: 9
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 18
240 Glu Val Asp Pro Ile Gly His Leu Tyr
241   1             5
243 <210> SEQ ID NO: 19
244 <211> LENGTH: 9

```

33

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```

245 <212> TYPE: PRT
246 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 19
249 Phe Leu Trp Gly Pro Arg Ala Leu Val
250   1           5
252 <210> SEQ ID NO: 20
253 <211> LENGTH: 10
254 <212> TYPE: PRT
255 <213> ORGANISM: Homo sapiens
257 <400> SEQUENCE: 20
258 Met Glu Val Asp Pro Ile Gly His Leu Tyr
259   1           5           10
261 <210> SEQ ID NO: 21
262 <211> LENGTH: 9
263 <212> TYPE: PRT
264 <213> ORGANISM: Homo sapiens
266 <400> SEQUENCE: 21
267 Ala Ala Arg Ala Val Phe Leu Ala Leu
268   1           5
270 <210> SEQ ID NO: 22
271 <211> LENGTH: 8
272 <212> TYPE: PRT
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 22
276 Tyr Arg Pro Arg Pro Arg Arg Tyr
277   1           5
279 <210> SEQ ID NO: 23
280 <211> LENGTH: 10
281 <212> TYPE: PRT
282 <213> ORGANISM: Homo sapiens
284 <400> SEQUENCE: 23
285 Ser Pro Ser Ser Asn Arg Ile Arg Asn Thr
286   1           5           10
288 <210> SEQ ID NO: 24
289 <211> LENGTH: 9
290 <212> TYPE: PRT
291 <213> ORGANISM: Homo sapiens
293 <400> SEQUENCE: 24
294 Val Leu Pro Asp Val Phe Ile Arg Cys
295   1           5
297 <210> SEQ ID NO: 25
298 <211> LENGTH: 10
299 <212> TYPE: PRT
300 <213> ORGANISM: Homo sapiens
302 <400> SEQUENCE: 25
303 Val Leu Pro Asp Val Phe Ile Arg Cys Val
304   1           5           10
306 <210> SEQ ID NO: 26
307 <211> LENGTH: 9

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 08/06/2001

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Input Set : A:\L0461-7104 revised sequence listing.txt

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L:560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53

L:567 M:283 W: Missing Blank Line separator, <400> field identifier